

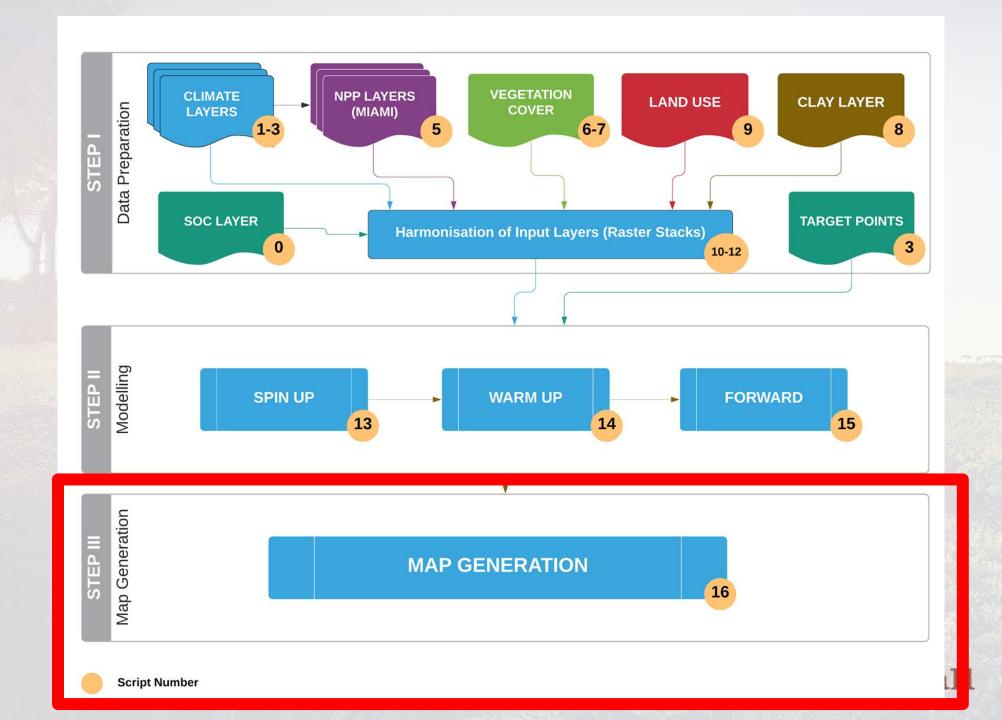
Soil Organic Carbon Sequestration Maps

Day 4. From vectors to maps

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FROM POINTS TO RASTERS





SCRIPT NUMBER 16. POINTS TO RASTER

Inputs:

COUNTRY_POLYGON.SHP (ROI)

FOWARD_BAU_3E_20YEARS_[code country].shp (from script number 15)

LAYER:

SOC_MAP_[country_code].tif (from script number 10)

Outputs:

3 raster scenarios (low, médium and high)

1 raster BAU (bussines as usual)

4 absolute rates (Scenario – 2018 SOC)/20

4 absolute differences (Scenario – 2018 SOC)

3 relative rates (Scenario – BAU)/20

3 relative differences (Scenario – BAU)

Uncertainties maps (BAU, SSM, SOC2018, UNC for absolute and relative rates)



From points to rasters



Objective:

Modeling runs will generate a 'point' vector file (1 point per pixel), with data related to SSM and BAU scenarios, and uncertainties (simplified method). This information is saved as a shapefile...

This last step will transform this points to raster file, one for each required map



Products

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Final SOC stocks (tC/ha) &
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Uncertainties (%)

- Pergamino_GSOCseq_finalSOC_BAU_Map030.tif
- Pergamino_GSOCseq_finalSOC_SSM1_Map030.tif
- Pergamino_GSOCseq_finalSOC_SSM2_Map030.tif
- Pergamino_GSOCseq_finalSOC_SSM3_Map030.tif
 - Pergamino_GSOCseq_SSM_UncertaintyMap030.tif
 - Pergamino_GSOCseq_T0_Map030.tif
 - Pergamino_GSOCseq_T0_UncertaintyMap030.tif



SOC Absolute differences (SSM 1-3 – T0) In tC/ha

- Pergamino_GSOCseq_AbsDiff_BAU_Map030.tif
- Pergamino_GSOCseq_AbsDiff_SSM1_Map030.tif
- Pergamino_GSOCseq_AbsDiff_SSM2_Map030.tif
- Pergamino_GSOCseq_AbsDiff_SSM3_Map030.tif



Absolute sequestration rates : Abs. Diff./20 years In tC/ha/year

- Pergamino_GSOCseq_ASR_BAU_Map030.tif
- Pergamino_GSOCseq_ASR_BAU_UncertaintyMap030.tif
- Pergamino_GSOCseq_ASR_SSM1_Map030.tif
- Pergamino_GSOCseq_ASR_SSM1_UncertaintyMap030.tif
- Pergamino_GSOCseq_ASR_SSM2_Map030.tif
- Pergamino_GSOCseq_ASR_SSM2_UncertaintyMap030.tif
- Pergamino_GSOCseq_ASR_SSM3_Map030.tif
- Pergamino_GSOCseq_ASR_SSM3_UncertaintyMap030.tif



SOC Relative Differences: (SSM1-3 – BAU) In tC/ha

- Pergamino_GSOCseq_RelDiff_SSM1_Map030.tif
- Pergamino_GSOCseq_RelDiff_SSM2_Map030.tif
- Pergamino_GSOCseq_RelDiff_SSM3_Map030.tif



Relative sequestration rates : Rel. Diff./ 20 years In tC/ha/year

- Pergamino_GSOCseq_RSR_SSM1_Map030.tif
- Pergamino_GSOCseq_RSR_SSM1_UncertaintyMap030.tif
- Pergamino_GSOCseq_RSR_SSM2_Map030.tif
- Pergamino_GSOCseq_RSR_SSM2_UncertaintyMap030.tif
- Pergamino_GSOCseq_RSR_SSM3_Map030.tif
- Pergamino_GSOCseq_RSR_SSM3_UncertaintyMap030.tif



Thank you!

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